Dell™ Inspiron™ 11 Service Manual

Before You Begin
Battery
Keyboard
Palm Rest
Speakers
Hard Drive
Memory Module
Palm Rest Bracket
LED Board
Processor Fan
Internal Card With Bluetooth Wireless Technology
Coin-Cell Battery
Wireless Mini-Card(s)
Processor Heat Sink
Memory and Processor Board
I/O Board
AC Adapter Connector
Display
Camera Board
System Board
Flashing the BIOS
Comprehensive Specifications

Notes, Cautions, and Warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Information in this document is subject to change without notice.
© 2009 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: *Dell*, the *DELL* logo, and *Inspiron* are trademarks of Dell Inc.; *Bluetooth* is a registered trademark owned by Bluetooth SIG, Inc. and is used by Dell under license; *Microsoft*, *Windows, Windows Vista,* and *Windows Vista* start button logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries; *Intel*, *Celeron*, and *Pentium* are registered trademarks of Intel Corporation in the U.S. and other countries.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.

Regulatory Model P03T series; Regulatory Type: P03T001

August 2009 Rev. A00

Back to Contents Page

AC Adapter Connector

Dell™ Inspiron™ 11 Service Manual

- Removing the AC Adapter Connector
- Replacing the AC Adapter Connector

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

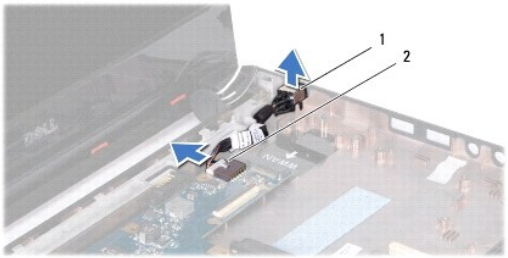
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the AC Adapter Connector

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the I/O board (see Removing the I/O Board).
10. Disconnect the antenna cables from the WWAN card, if applicable (see Removing the WWAN Card).
11. Disconnect the antenna cables from the WLAN card, if applicable (see Removing the WLAN Card).
12. Make note of the cable routing and carefully dislodge the Mini-Card antenna cables from the routing guides.
13. Disconnect the AC adapter connector cable from the system board connector.
14. Lift the AC adapter connector off the computer base.



1	AC adapter connector	2	system board connector

Replacing the AC Adapter Connector

1. Follow the procedures in Before You Begin.
2. Place the AC adapter connector on the system board.
3. Connect the AC adapter connector cable to the system board connector.
4. Route the Mini-Card antenna cables through the routing guides.
5. Connect the antenna cables to the WWAN card, if applicable (see Replacing the WWAN Card).
6. Connect the antenna cables to the WLAN card, if applicable (see Replacing the WLAN Card).
7. Replace the I/O board (see Replacing the I/O Board).
8. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
9. Replace the memory module (see Replacing the Memory Module).
10. Replace the hard drive (see Replacing the Hard Drive).
11. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
12. Replace the palm rest (see Replacing the Palm Rest).
13. Replace the keyboard (see Replacing the Keyboard).
14. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Before You Begin

Dell™ Inspiron™ 11 Service Manual

- Recommended Tools
- Turning Off Your Computer
- Before Working Inside Your Computer

This manual provides procedures for removing and installing the components in your computer. Unless otherwise noted, each procedure assumes that the following conditions exist:

- You have performed the steps in Turning Off Your Computer and Before Working Inside Your Computer.
- You have read the safety information that shipped with your computer.
- A component can be replaced or—if purchased separately—installed by performing the removal procedure in the reverse order.

Recommended Tools

The procedures in this document may require the following tools:

- Small flat-blade screwdriver
- Phillips screwdriver
- Plastic scribe
- BIOS executable update program available at **support.dell.com**

Turning Off Your Computer

CAUTION: To avoid losing data, save and close all open files and exit all open programs before you turn off your computer.

1. Save and close all open files and exit all open programs.
2. Shut down the operating system; click **Start** , click the arrow , and then click **Shut Down**.
3. Ensure that the computer is turned off. If your computer did not automatically turn off when you shut down the operating system, press and hold the power button until the computer turns off.

Before Working Inside Your Computer

Use the following safety guidelines to help protect your computer from potential damage and to help to ensure your own personal safety.

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: Handle components and cards with care. Do not touch the components or contacts on a card. Hold a card by its edges or by its metal mounting bracket. Hold a component such as a processor by its edges, not by its pins.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell is not covered by your warranty.

CAUTION: When you disconnect a cable, pull on its connector or on its pull-tab, not on the cable itself. Some cables have connectors with locking tabs; if you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Also, before you connect a cable, ensure that both connectors are correctly oriented and aligned.

CAUTION: To avoid damaging the computer, perform the following steps before you begin working inside the computer.

1. Ensure that the work surface is flat and clean to prevent the computer cover from being scratched.
2. Turn off your computer (see Turning Off Your Computer) and all attached devices.

CAUTION: To disconnect a network cable, first unplug the cable from your computer and then unplug the cable from the network device.

3. Disconnect all telephone or network cables from the computer.
4. Press and eject any installed cards from the Memory Card Reader.
5. Disconnect your computer and all attached devices from their electrical outlets.
6. Disconnect all attached devices from your computer.

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

7. Remove the battery (see Removing the Battery).
8. Turn the computer top-side up, open the display, and press the power button to ground the system board.

Back to Contents Page

Back to Contents Page

Flashing the BIOS

Dell™ Inspiron™ 11 Service Manual

1. Ensure that the AC adapter is plugged in, the main battery is properly installed, and a network cable is attached.
2. Turn on the computer.
3. Locate the latest BIOS update file for your computer at **support.dell.com**.
4. Click **Drivers & Downloads→ Select Model**.
5. Select the type of product in the **Select Your Product Family** list.
6. Select the product brand in the **Select Your Product Line** list.
7. Select the product model number in the **Select Your Product Model** list.

NOTE: If you have selected a different model and want to start over again, click **Start Over** on the top right of the menu.

8. Click **Confirm**.
9. A list of results appear on the screen. Click **BIOS**.
10. Click **Download Now** to download the latest BIOS file.
    The **File Download** window appears.
11. Click **Save** to save the file on your desktop. The file downloads to your desktop.
12. Click **Close** if the **Download Complete** window appears.
    The file icon appears on your desktop and is titled the same as the downloaded BIOS update file.
13. Double-click the file icon on the desktop and follow the procedures that appear on the screen.

Back to Contents Page

Back to Contents Page

Internal Card With Bluetooth Wireless Technology

Dell™ Inspiron™ 11 Service Manual

- Removing the Bluetooth Card
- Replacing the Bluetooth Card

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

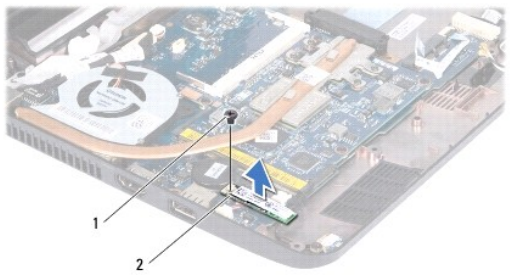
CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

If you ordered a card with Bluetooth® wireless technology with your computer, it is already installed.

Removing the Bluetooth Card

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the screw that secures the Bluetooth card to the system board.
10. Lift the Bluetooth card to disconnect it from the system board connector.



1	screw	2	Bluetooth card

Replacing the Bluetooth Card

1. Follow the procedures in Before You Begin.
2. Align the connector on the Bluetooth card with the connector on the system board and press gently.

3. Replace the screw that secures the Bluetooth card to the system board.
4. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
5. Replace the memory module (see Replacing the Memory Module).
6. Replace the hard drive (see Replacing the Hard Drive).
7. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
8. Replace the palm rest (see Replacing the Palm Rest).
9. Replace the keyboard (see Replacing the Keyboard).
10. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Camera Board

Dell™ Inspiron™ 11 Service Manual

- Removing the Camera Board
- Replacing the Camera Board

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

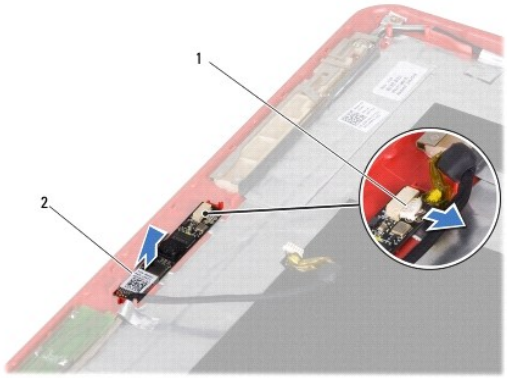
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Camera Board

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the display assembly (see Removing the Display Assembly).
10. Remove the hinge caps (see Removing the Hinge Caps).
11. Remove the display bezel (see Removing the Display Bezel).
12. Remove the display panel (see Removing the Display Panel).
13. Disconnect the camera cable from the connector on the camera board.
14. Lift the camera board off the display back cover.



1	camera cable connector	2	camera board

Replacing the Camera Board

1. Follow the procedures in Before You Begin.
2. Replace the camera board on the display cover.
3. Connect the camera cable to the connector on the camera board.
4. Replace the display panel (see Replacing the Display Panel).
5. Replace the display bezel (see Replacing the Display Bezel).
6. Replace the hinge caps (see Replacing the Hinge Caps).
7. Replace the display assembly (see Replacing the Display Assembly).
8. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
9. Replacing the memory module (see Replacing the Memory Module).
10. Replace the hard drive (see Replacing the Hard Drive).
11. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
12. Replace the palm rest (see Replacing the Palm Rest).
13. Replace the keyboard (see Replacing the Keyboard).
14. Replace the battery (see Replacing the Battery).

△ **CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.**

Back to Contents Page

Back to Contents Page

Comprehensive Specifications

Dell™ Inspiron™ 11 Service Manual

This document provides information that you may need when setting up, updating drivers for, and upgrading your computer.

NOTE: Offerings may vary by region. For more information regarding the configuration of your computer, click **Start** → **Help and Support** and select the option to view information about your computer.

Processor	
Type	Intel® Celeron® Intel Pentium®
External bus frequency	800 MHz
L2 cache	1 MB or 2 MB
Memory	
Connectors	one internally-accessible SO-DIMM socket
Memory type	800 MHz DDR2
Memory configuration possible	1 GB, 2 GB, or 4 GB
Computer Information	
System chipset	Intel GS45
Data bus width	64 bits
DRAM bus width	single channel 64-bit buses
Processor address bus width	32 bits
Flash EPROM	1 MB
Communications	
Network adapter	10/100 Ethernet LAN on system board
Wireless	internal WLAN Mini-Card with WiFi Optional WWAN and Bluetooth® Mini-Cards
Video	
UMA:	
Video type	integrated on system board
Video controller	integrated Intel GS45 UMA
Video memory	dynamic based on system memory capacity
LCD interface	Low Voltage Differential Signaling (LVDS)
Audio	
Audio type	4 channel High Definition audio
Audio controller	Realtek ALC272
Internal interface	Intel High Definition audio
Speaker	two 1.0 watt speakers
Ports and Connectors	
Audio	one microphone connector, one mono headphone/stereo speaker connector
Mini-Card	one full size Mini-Card slot and one half size Mini-Card slot, supports dual interface
Network adapter	one RJ45 connector

USB	two 4-pin USB 2.0-compliant connectors one 4-pin power USB 2.0-compliant connector	
HDMI	one HDMI connector	
Display		
Type	11.6-inch HD+ WLED with TrueLife	
Dimensions:		
Height	144 mm (5.7 inches)	
Width	256.12 mm (10.1 inches)	
Diagonal	293.83 mm (11.6 inches)	
Maximum resolution	1366 x 768 at 262 K colors	
Refresh rate	60 Hz	
Operating angle	0° (closed) to 135°	
Luminance	180 min. 200 typ. cd/m²	
Viewing Angles:		
Horizontal	±40° min	
Vertical	+15°/–30° min	
Pixel pitch	0.1875 x 0.1875 mm	
Controls	brightness can be controlled through keyboard shortcuts (for more information, see the *Dell Technology Guide* on your hard drive or at **support.dell.com**)	
Keyboard (Backlit)		
Number of keys	86 (US); 87 (UK/Brazil); 90 (Japan)	
Layout	QWERTY	
Camera		
Pixel	1.3 megapixel	
Video resolution	640 x 480 at 30 fps (maximum)	
Diagonal viewing angle	66°	
Touch Pad		
X/Y position resolution (graphics table mode)	240 cpi	
Size:		
Width	84.45 mm (3.32 inches) sensor-active area	
Height	41.6 mm (1.64 inches) rectangle	
Battery		
Type	**3-cell lithium ion**	**6-cell lithium ion**
Attributes	3-cell	6-cell
Depth	23.1 mm (0.91 inches)	45.62 mm (1.80 inches)
Height	39.04 mm (1.54 inches)	45.7 mm (1.80 inches)
Width	204.14 mm (8.04 inches)	214.0 mm (8.42 inches)
Weight	0.165 kg (0.36 lb)	0.350 kg (0.77 lb)
Voltage	11.1 VDC	11.1 VDC
Charge time when the computer is off (approximate)	3.0 hours (3-cell)	4.0 hours (6-cell)
Operating time	Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions. For more information, see the *Dell Technology Guide* on your hard drive or at **support.dell.com**.	
Life span (approximate)	300 discharge/charge cycles	
Temperature range:		
Operating	0° to 35°C (32° to 95°F)	

Storage	–40° to 65°C (–40° to 149°F)
Coin-cell battery	CR-2032
AC Adapter	
Input voltage	100–240 VAC
Input current (maximum)	1.5 A
Input frequency	50–60 Hz
Output power	65 W
Output current	3.34 A (continuous)
Rated output voltage	19.5 ± 1 VDC
Dimensions:	
Height	16 mm (0.63 inches)
Width	66 mm (2.6 inches)
Length	127 mm (5 inches)
Weight (without cables)	0.25 kg (0.55 lbs)
Temperature ranges:	
Operating	0° to 35°C (32° to 95°F)
Storage	–30° to 65°C (–22° to 149°F)
Physical	
Height	16.4 mm to 25.8 mm (0.64 inches to 1.01 inches)
Width	292 mm (11.49 inches)
Depth	214 mm (8.42 inches)
Weight (with 3-cell battery):	
Configurable to less than	1.35 kg (2.98 lbs)
Computer Environment	
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)
Relative humidity (maximum):	
Operating	10% to 90% (noncondensing)
Storage	5% to 90% (noncondensing)
Maximum vibration (using a random-vibration spectrum that simulates user environment):	
Operating	0.66 GRMS
Non-Operating	1.3 GRMS
Maximum shock (for operating: measured with Dell Diagnostics running on the hard drive and a 2-ms half-sine pulse; for non-operating: measured with hard drive in head-parked position and a 2-ms half-sine pulse):	
Operating	110 GRMS
Non-Operating	160 GRMS
Altitude (maximum):	
Operating	–15.2 to 3048 m (–50 to 10,000 ft)
Storage	–15.2 to 10,668 m (–50 to 35,000 ft)
Airborne contaminant level	G2 or lower as defined by ISA-S71.04-1985

Back to Contents Page

Back to Contents Page

Memory and Processor Board

Dell™ Inspiron™ 11 Service Manual

- Removing the Memory and Processor Board
- Replacing the Memory and Processor Board

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

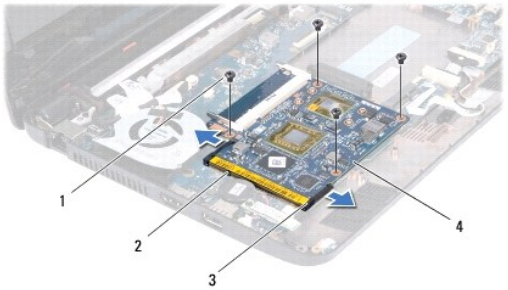
CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Memory and Processor Board

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the processor heat sink (see Removing the Processor Heat Sink).

CAUTION: When the memory and processor board is removed from the computer, store it in protective antistatic packaging (see "Protecting Against Electrostatic Discharge" in the safety instructions that shipped with your computer).

10. Remove the four screws that secure the memory and processor board to the computer base.
11. Use your fingertips to carefully spread apart the securing clips on either side of the memory and processor board connector until the board pops up.



1	screws (4)	2	memory and processor board connector
3	securing clips (2)	4	memory and processor board

12. Lift the memory and processor board off the system board.

Replacing the Memory and Processor Board

1. Follow the procedures in Before You Begin.
2. Align the notch in the memory and processor board with the tab in the connector.
3. Slide the memory and processor board firmly into the slot at a 30-degree angle, and press the memory and processor board down until it clicks into place. If you do not hear the click, remove the memory and processor board and reinstall it.
4. Replace the four screws that secure the memory and processor board to the system board.
5. Replace the processor heat sink (see Replacing the Processor Heat Sink).
6. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
7. Replace the memory module (see Replacing the Memory Module).
8. Replace the hard drive (see Replacing the Hard Drive).
9. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
10. Replace the palm rest (see Replacing the Palm Rest).
11. Replace the keyboard (see Replacing the Keyboard).
12. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Processor Heat Sink

Dell™ Inspiron™ 11 Service Manual

- Removing the Processor Heat Sink
- Replacing the Processor Heat Sink

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

WARNING: If you remove the processor heat sink from the computer when the heat sink is hot, do not touch the metal housing of the heat sink.

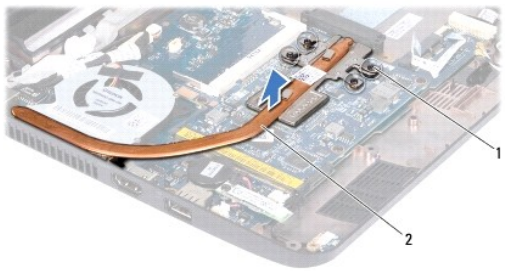
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Processor Heat Sink

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. In sequential order (indicated on the processor heat sink), loosen the four captive screws that secure the processor heat sink to the system board.



1	captive screws (4)	2	processor heat sink

CAUTION: To ensure maximum cooling for the processor, do not touch the heat transfer areas on the processor heat sink assembly. The oils in your skin can reduce the heat transfer capability of the thermal pads.

10. Lift the processor heat sink off the system board.

Replacing the Processor Heat Sink

NOTE: This procedure assumes that you have already removed the processor heat sink and are ready to replace it.

NOTE: The original thermal pad can be reused if the original heat sink is replaced. If the heat sink is replaced, use the thermal pad provided in the kit to ensure that thermal conductivity is achieved.

1. Follow the procedures in Before You Begin.
2. Place the processor heat sink on the system board.
3. Align the four captive screws on the processor heat sink with the screw holes on the system board and tighten the screws in sequential order (indicated on the processor heat sink).
4. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
5. Replace the memory module (see Replacing the Memory Module).
6. Replace the hard drive (see Replacing the Hard Drive).
7. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
8. Replace the palm rest (see Replacing the Palm Rest).
9. Replace the keyboard (see Replacing the Keyboard).
10. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Display

Dell™ Inspiron™ 11 Service Manual

- Display Assembly
- Hinge Caps
- Display Bezel
- Display Panel Brackets
- Display Panel

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

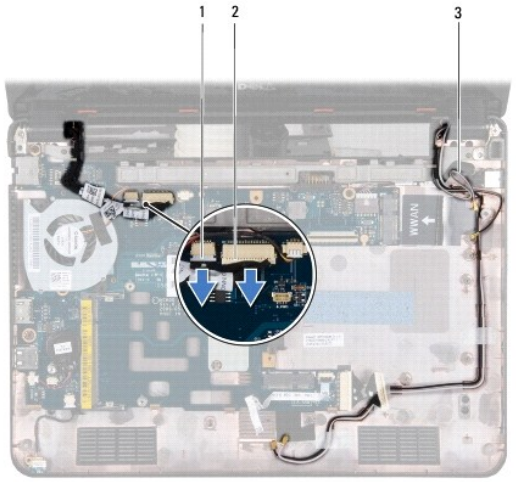
CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Display Assembly

Removing the Display Assembly

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the I/O board (see Removing the I/O Board).
10. Disconnect the antenna cables from the WWAN card, if applicable (see Removing the WWAN Card).
11. Disconnect the antenna cables from the WLAN card, if applicable (see Removing the WLAN Card).
12. Make note of the cable routing and carefully dislodge the Mini-Card antenna cables from the routing guides.
13. Disconnect the display cable and the camera cable from the system board connectors.



1	camera cable connector	2	display cable connector
3	Mini-Card antenna cables		

14. Remove the two screws (one on each side) that secure the display assembly to the computer base.

1	display assembly	2	screws (2)

15. Lift the display assembly off the computer.

Replacing the Display Assembly

1. Follow the procedures in Before You Begin.
2. Place the display assembly in position and replace the two screws (one on each side) that secure the display assembly to the computer base.
3. Route the Mini-Card antenna cables through the routing guides.
4. Connect the antenna cables to the WWAN card, if applicable (see Replacing the WWAN Card).
5. Connect the antenna cables to the WLAN card, if applicable (see Replacing the WLAN Card).

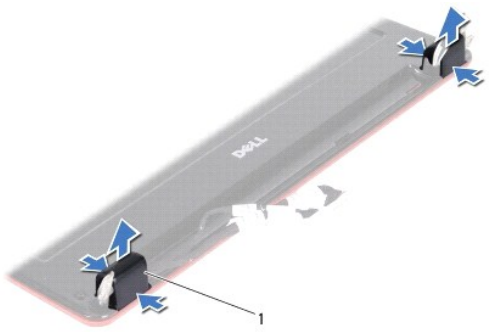
6. Connect the display cable and the camera cable to the system board connectors.
7. Replace the I/O board (see Replacing the I/O Board).
8. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
9. Replace the memory module (see Replacing the Memory Module).
10. Replace the hard drive (see Replacing the Hard Drive).
11. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
12. Replace the palm rest (see Replacing the Palm Rest).
13. Replace the keyboard (see Replacing the Keyboard).
14. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Hinge Caps

Removing the Hinge Caps

1. Follow the procedures in Before You Begin.
2. Remove the display assembly (see Removing the Display Assembly).
3. Press both sides of each hinge cap and lift the hinge caps out.



1	hinge caps (2)

Replacing the Hinge Caps

1. Follow the procedures in Before You Begin.
2. Place the hinge caps on the hinges and push them in.
3. Replace the display assembly (see Replacing the Display Assembly).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Display Bezel

Removing the Display Bezel

CAUTION: The display bezel is extremely fragile. Be careful when removing it to prevent damaging the bezel.

1. Follow the procedures in Before You Begin.
2. Remove the display assembly (see Removing the Display Assembly).
3. Remove the hinge caps (see Removing the Hinge Caps).
4. Remove the two rubber pads (one on either side) covering the screws on the display bezel.
5. Remove the two screws that secure the display bezel to the display back cover.
6. Using your fingertips, carefully pry up the inside edge of the display bezel.
7. Remove the display bezel.

1	display bezel	2	rubber pads (2)
3	screws (2)		

Replacing the Display Bezel

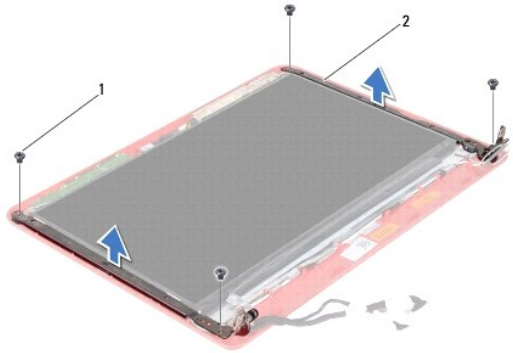
1. Follow the procedures in Before You Begin.
2. Align the display bezel over the display panel, and gently snap into place.
3. Replace the two screws that secure the display bezel to the display back cover.
4. Replace the two rubber pads (one on either side) over the display bezel screws.
5. Replace the hinge caps (see Replacing the Hinge Caps).
6. Replace the display assembly (see Replacing the Display Assembly).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Display Panel Brackets

Removing the Display Panel Brackets

1. Follow the procedures in Before You Begin.
2. Remove the display assembly (see Removing the Display Assembly).
3. Remove the hinge caps (see Removing the Hinge Caps).
4. Remove the display bezel (see Removing the Display Bezel).
5. Remove the four screws (two on each bracket) that secure the display panel brackets to the display back cover.
6. Lift the display panel brackets off the display panel.



1	screws (4)	2	display panel brackets (2)

Replacing the Display Panel Brackets

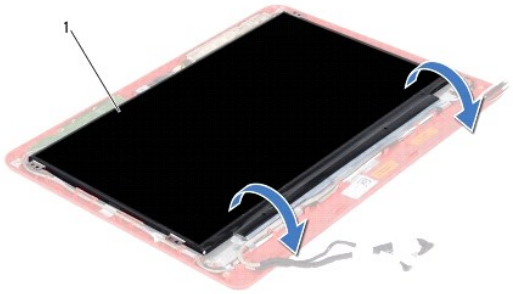
1. Follow the procedures in Before You Begin.
2. Replace the display panel brackets.
3. Replace the four screws (two on each bracket) that secure the display panel brackets to the display back cover.
4. Replace the display bezel (see Replacing the Display Bezel).
5. Replace the hinge caps (see Replacing the Hinge Caps).
6. Replace the display assembly (see Replacing the Display Assembly).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Display Panel

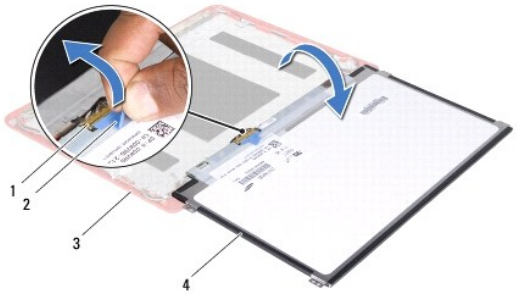
Removing the Display Panel

1. Follow the procedures in Before You Begin.
2. Remove the display assembly (see Removing the Display Assembly).
3. Remove the hinge caps (see Removing the Hinge Caps).
4. Remove the display bezel (see Removing the Display Bezel).
5. Remove the display panel brackets (see Removing the Display Panel Brackets).
6. Turn the display panel over, as shown in the illustration.



1	display panel

7. Peel the pull-tab on the display cable and lift the pull-tab to disconnect the display cable from the display cable connector.



1	display cable connector	2	pull-tab
3	display back cover	4	display panel

8. Lift the display panel off the display back cover.

Replacing the Display Panel

1. Follow the procedures in Before You Begin.
2. Connect the display cable to the display cable connector on the display panel.
3. Align the display panel with the display back cover.
4. Replace the display panel brackets (see Replacing the Display Panel Brackets).
5. Replace the display bezel (see Replacing the Display Bezel).
6. Replace the hinge caps (see Replacing the Hinge Caps).
7. Replace the display assembly (see Replacing the Display Assembly).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Processor Fan

Dell™ Inspiron™ 11 Service Manual

- Removing the Processor Fan
- Replacing the Processor Fan

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

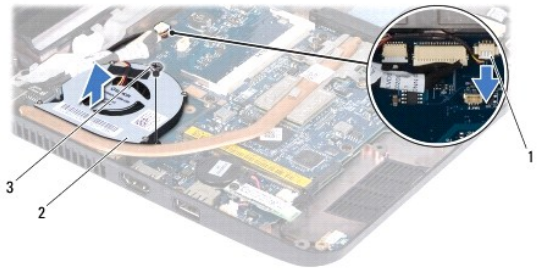
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Processor Fan

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the screw that secures the processor fan to the computer base.
10. Disconnect the processor fan cable from the system board connector.



1	processor fan cable connector	2	processor fan
3	screw		

11. Lift the processor fan, along with the cable, off the system board.

Replacing the Processor Fan

NOTE: This procedure assumes that you have already removed the processor fan and are ready to replace it.

1. Follow the procedures in Before You Begin.
2. Place the processor fan on the system board.
3. Replace the screw that secures the processor fan to the computer base.
4. Connect the processor fan cable to the system board connector.
5. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
6. Replace the memory module (see Replacing the Memory Module).
7. Replace the hard drive (see Replacing the Hard Drive).
8. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
9. Replace the palm rest (see Replacing the Palm Rest).
10. Replace the keyboard (see Replacing the Keyboard).
11. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Hard Drive

Dell™ Inspiron™ 11 Service Manual

- Removing the Hard Drive
- Replacing the Hard Drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

WARNING: If you remove the hard drive from the computer when the drive is hot, do not touch the metal housing of the hard drive.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell is not covered by your warranty.

CAUTION: To prevent data loss, turn off your computer (see Turning Off Your Computer) before removing the hard drive. Do not remove the hard drive while the computer is On or in Sleep state.

CAUTION: Hard drives are extremely fragile. Exercise care when handling the hard drive.

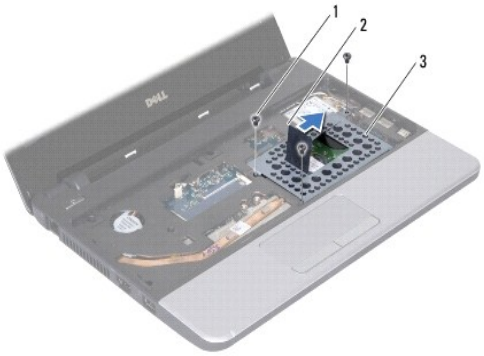
CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

NOTE: Dell does not guarantee compatibility or provide support for hard drives from sources other than Dell.

NOTE: If you are installing a hard drive from a source other than Dell, you need to install an operating system, drivers, and utilities on the new hard drive (see the *Dell Technology Guide*).

Removing the Hard Drive

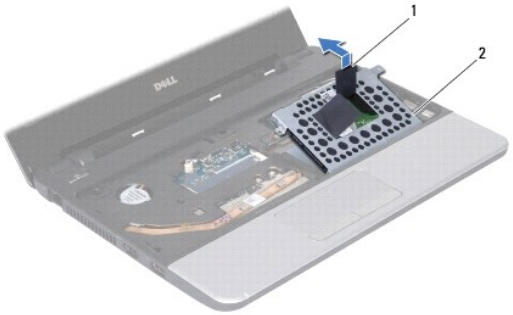
1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the three screws that secure the hard drive assembly to the computer base.
5. Pull the pull-tab on the hard drive bracket towards the right to disconnect the hard drive assembly from the interposer.



1	screws (3)	2	pull-tab
3	hard drive assembly		

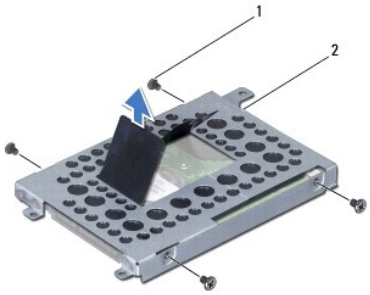
CAUTION: When the hard drive is not in the computer, store it in protective antistatic packaging (see "Protecting Against Electrostatic Discharge" in the safety instructions that shipped with your computer).

6. Pull the pull-tab on the hard drive bracket to lift the hard drive assembly at an angle and out of the hard drive compartment as shown in the illustration.



1	pull-tab	2	hard drive assembly

7. Remove the four screws that secure the hard drive bracket to the hard drive and remove the hard drive bracket.



1	screws (4)	2	hard drive bracket

Replacing the Hard Drive

1. Follow the procedures in Before You Begin.
2. Remove the new hard drive from its packaging. Save the original packaging for storing or shipping the hard drive.
3. Replace the hard drive bracket and the four screws that secure the hard drive bracket to the hard drive.
4. Place the hard drive assembly in the hard drive compartment.
5. Push the hard drive assembly towards the left until it is fully connected to the interposer.
6. Replace the three screws that secure the hard drive assembly to the computer base.
7. Replace the keyboard (see Replacing the Keyboard).
8. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

9. Install the operating system for your computer, as needed. See "Restoring Your Operating System" in the *Setup Guide.*
10. Install the drivers and utilities for your computer, as needed. See "Reinstalling Drivers and Utilities" in the *Dell Technology Guide*.

Back to Contents Page

Back to Contents Page

Keyboard

Dell™ Inspiron™ 11 Service Manual

- Removing the Keyboard
- Replacing the Keyboard

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

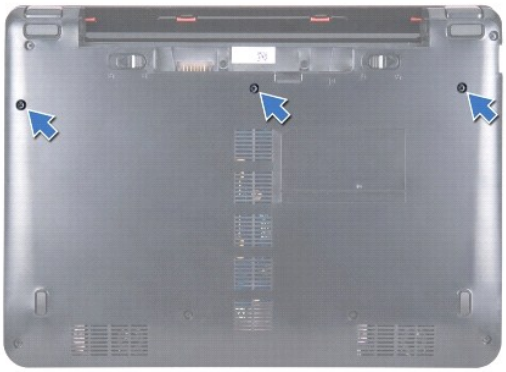
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Keyboard

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the three screws that secure the keyboard to the computer base.

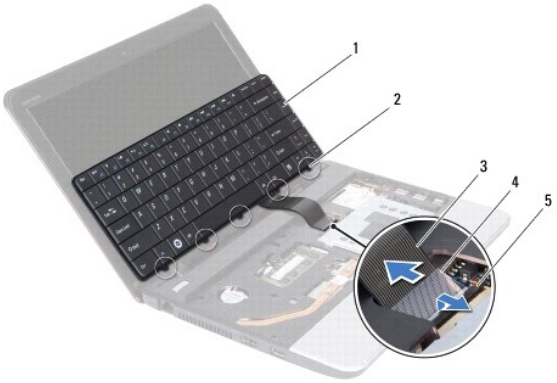


CAUTION: The keycaps on the keyboard are fragile, easily dislodged, and time-consuming to replace. Be careful when removing and handling the keyboard.

CAUTION: Be extremely careful when removing and handling the keyboard. Failure to do so could result in scratching the display panel.

4. Turn the computer over and open the display as far as possible.
5. Pry out the left side of the keyboard by using a plastic scribe. Gently release the left side of the keyboard and then the right side until it comes out from the palm rest bracket.

6. Ease the keyboard up until the keyboard cable connector is visible.
7. Without pulling hard on the keyboard, hold it towards the display.
8. Lift the connector latch and pull the pull-tab on the keyboard cable to disconnect the keyboard cable from the system board connector.
9. Lift the keyboard off the palm rest bracket.



1	keyboard	2	tabs (5)
3	keyboard cable	4	pull-tab
5	connector latch		

Replacing the Keyboard

1. Follow the procedures in Before You Begin.
2. Slide the keyboard cable into the connector on the system board. Press down on the connector latch to secure the keyboard cable to the system board connector.
3. Align the tabs on the keyboard with the slots on the palm rest bracket and gently press the keyboard to snap it into place.
4. Turn the computer over and replace the three screws that secure the keyboard to the computer base.
5. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

LED Board

Dell™ Inspiron™ 11 Service Manual

- Removing the LED Board
- Replacing the LED Board

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

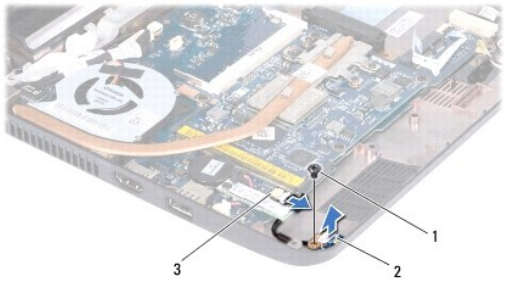
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the LED Board

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Disconnect the LED board cable from the system board connector.
10. Remove the screw that secures the LED board to the computer base.
11. Lift the LED board off the computer base.



1	screw	2	LED board
3	system board connector		

Replacing the LED Board

1. Follow the procedures in Before You Begin.
2. Place the LED board on the computer base.

3. Replace the screw that secures the LED board to the computer base.
4. Connect the LED board cable to the system board connector.
5. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
6. Replace the memory module (see Replacing the Memory Module).
7. Replace the hard drive (see Replacing the Hard Drive).
8. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
9. Replace the palm rest (see Replacing the Palm Rest).
10. Replace the keyboard (see Replacing the Keyboard).
11. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Memory Module

Dell™ Inspiron™ 11 Service Manual

- Removing the Memory Module
- Replacing the Memory Module

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

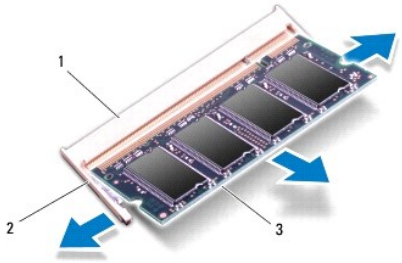
NOTE: Memory modules purchased from Dell are covered under your computer warranty.

Removing the Memory Module

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).

CAUTION: To prevent damage to the memory module connector, do not use tools to spread the memory module securing clips.

4. Use your fingertips to carefully spread apart the securing clips on each end of the memory module connector until the memory module pops up.
5. Remove the memory module from the memory module connector.

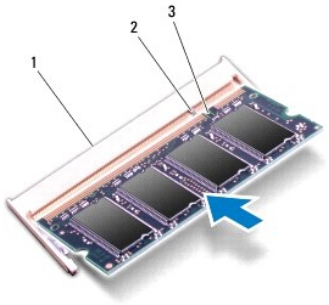


1	memory module connector	2	securing clips (2)
3	memory module		

Replacing the Memory Module

1. Follow the procedures in Before You Begin.
2. Align the notch in the memory module with the tab in the memory module connector.
3. Slide the memory module firmly into the slot at a 45-degree angle, and press the memory module down until it clicks into place. If you do not hear the click, remove the memory module and reinstall it.

NOTE: If the memory module is not installed properly, the computer may not boot.



1	memory module connector	2	tab
3	notch		

4. Replace the keyboard (see Replacing the Keyboard).
5. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

6. Turn on the computer.

To confirm the amount of memory installed in the computer, click **Start** → **Help and Support**→ **Dell System Information**.

Back to Contents Page

Back to Contents Page

Wireless Mini-Card(s)

Dell™ Inspiron™ 11 Service Manual

- WWAN Card
- WLAN Card

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

NOTE: Dell does not guarantee compatibility or provide support for Mini-Cards from sources other than Dell.

If you ordered a wireless Mini-Card with your computer, the card is already installed.

Your computer supports two Mini-Card slots – one full size and one half size.

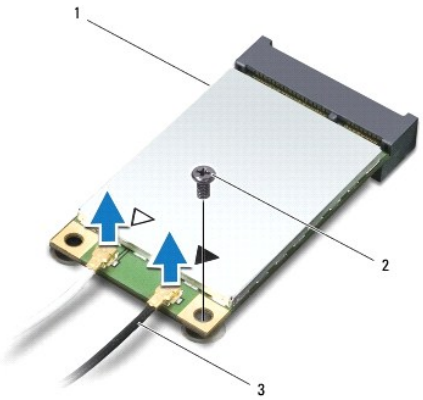
- one half Mini-Card slot – for WLAN
- one full Mini-Card slot – for WWAN

NOTE: Depending on the configuration of the computer when it was sold, the Mini-Card slot may not have a Mini-Card installed.

WWAN Card

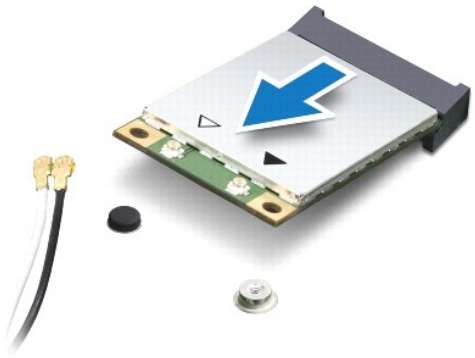
Removing the WWAN Card

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Disconnect the antenna cables from the WWAN card.



1	WWAN card	2	screw
3	antenna cables (2)		

5. Remove the screw that secures the WWAN card to the system board.
6. Lift the WWAN card out of the system board connector.



Replacing the WWAN Card

1. Follow the procedures in Before You Begin.
2. Remove the new WWAN card from its packaging.

CAUTION: Use firm and even pressure to slide the card into place. If you use excessive force, you may damage the connector.

3. Insert the WWAN card connector at a 45-degree angle into the system board connector.
4. Press the other end of the WWAN card down on the system board.
5. Replace the screw that secures the WWAN card to the system board.
6. Connect the appropriate antenna cables to the WWAN card you are installing. The following table provides the antenna cable color scheme for the WWAN card supported by your computer.

Connectors on the Mini-Card	Antenna Cable Color Scheme
WWAN (2 antenna cables)	
Main WWAN (white triangle)	white with gray stripe
Auxiliary WWAN (black triangle)	black with gray stripe

7. Replace the keyboard (see Replacing the Keyboard).
8. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

9. Install the drivers and utilities for your computer, as required. For more information, see the *Dell Technology Guide*.

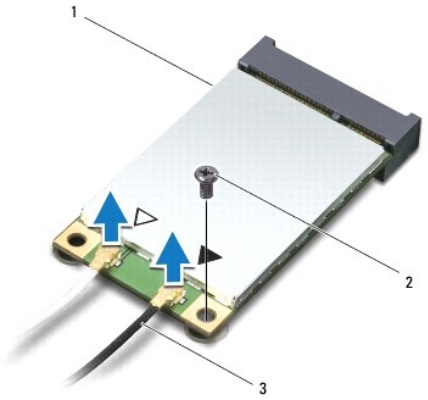
NOTE: If you are installing a communication card from a source other than Dell, you must install the appropriate drivers and utilities. For more generic driver information, see the *Dell Technology Guide*.

WLAN Card

Removing the WLAN Card

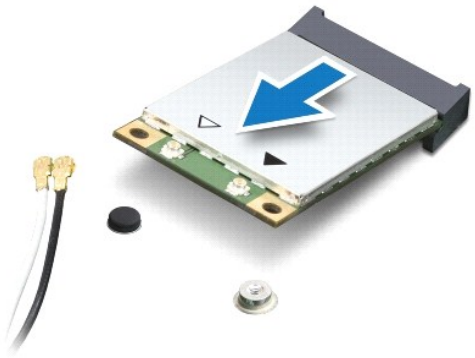
1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).

3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Disconnect the antenna cables from the WLAN card.



1	WLAN card	2	screw
3	antenna cables (2)		

10. Remove the screw that secures the WLAN card to the system board.
11. Lift the WLAN card out of the system board connector.



CAUTION: When the Mini-Card is not in the computer, store it in protective antistatic packaging. For more information, see "Protecting Against Electrostatic Discharge" in the safety information that shipped with your computer.

Replacing the WLAN Card

1. Follow the procedures in Before You Begin.
2. Remove the new WLAN card from its packaging.

CAUTION: Use firm and even pressure to slide the card into place. If you use excessive force, you may damage the connector.

3. Insert the WLAN card connector at a 45-degree angle into the system board connector.
4. Press the other end of the WLAN card down on the system board.
5. Replace the screw that secures the WLAN card to the system board.
6. Connect the appropriate antenna cables to the WLAN card you are installing. The following table provides the antenna cable color scheme for the WLAN card supported by your computer.

Connectors on the Mini-Card	Antenna Cable Color Scheme
WLAN (2 antenna cables)	
Main WLAN (white triangle)	white
Auxiliary WLAN (black triangle)	black

7. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
8. Replace the memory module (see Replacing the Memory Module).
9. Replace the hard drive (see Replacing the Hard Drive).
10. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
11. Replace the palm rest (see Replacing the Palm Rest).
12. Replace the keyboard (see Replacing the Keyboard).
13. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

14. Install the drivers and utilities for your computer, as required. For more information, see the *Dell Technology Guide*.

NOTE: If you are installing a communication card from a source other than Dell, you must install the appropriate drivers and utilities. For more generic driver information, see the *Dell Technology Guide*.

Back to Contents Page

Back to Contents Page

Palm Rest

Dell™ Inspiron™ 11 Service Manual

- Removing the Palm Rest
- Replacing the Palm Rest

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

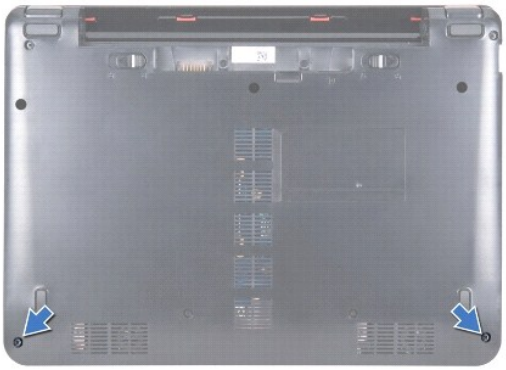
CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Palm Rest

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the two screws that secure the palm rest to the computer base.

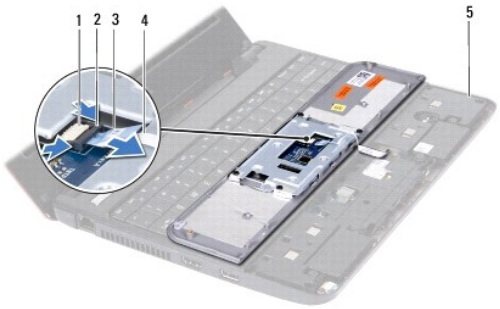
CAUTION: Carefully separate the palm rest from the palm rest bracket to avoid damage to the palm rest.



4. Turn the computer over and starting at the right side or left side of the palm rest, use your fingers or a flat-blade screwdriver to separate the palm rest from the palm rest bracket.

1	palm rest

5. Turn the palm rest over the keyboard to access the touch pad cable connector.
6. Release the connector latch that secures the touch pad cable.
7. Pull the pull-tab on the touch pad cable to disconnect the touch pad cable from the touch pad cable connector.
8. Lift the palm rest off the computer.



1	touch pad cable connector	2	connector latch
3	pull-tab	4	touch pad cable
5	palm rest bracket		

Replacing the Palm Rest

1. Follow the procedures in Before You Begin.
2. Slide the touch pad cable into the touch pad cable connector. Gently push back the connector latch to secure the touch pad cable to the touch pad cable connector.
3. Align the palm rest on the palm rest bracket and gently snap the palm rest into place.
4. Turn the computer over and replace the two screws that secure the palm rest to the computer base.
5. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Palm Rest Bracket

Dell™ Inspiron™ 11 Service Manual

- Removing the Palm Rest Bracket
- Replacing the Palm Rest Bracket

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

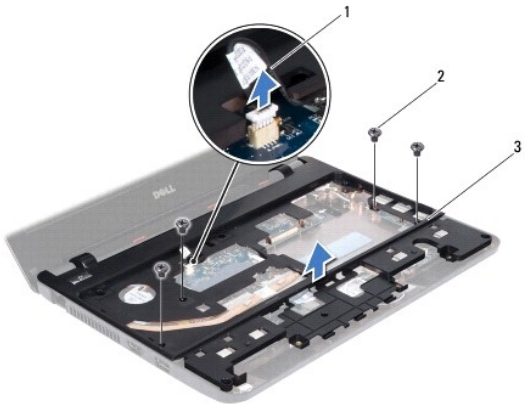
CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Palm Rest Bracket

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Remove the speakers (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Turn the computer over and remove the four screws from the computer base.

8. Turn the computer top-side up, open the display, and remove the four screws that secure the palm rest bracket to the computer base.
9. Disconnect the power button cable from the system board connector.



1	power button cable	2	screws (4)
3	palm rest bracket		

10. Lift the palm rest bracket off the computer base.

Replacing the Palm Rest Bracket

1. Follow the procedure in Before You Begin.
2. Place the palm rest bracket on the computer base.
3. Replace the four screws that secure the palm rest bracket to the computer base.
4. Connect the power button cable to the system board connector.
5. Turn the computer over and replace the four screws that secure the palm rest bracket to the computer base.
6. Replace the hard drive (see Replacing the Hard Drive).
7. Replace the speakers (see Replacing the Speakers).
8. Replace the palm rest (see Replacing the Palm Rest).
9. Replace the keyboard (see Replacing the Keyboard).
10. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Battery

Dell™ Inspiron™ 11 Service Manual

- Removing the Battery
- Replacing the Battery

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

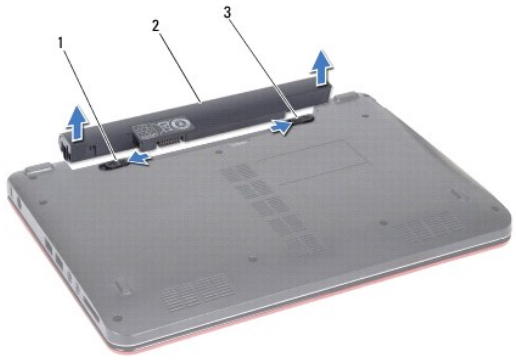
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, you must remove the battery from the battery bay before you begin working inside the computer.

Removing the Battery

1. Follow the procedures in Before You Begin.
2. Turn the computer over.
3. Slide the battery lock latch and the battery release latch to the unlock position.
4. Pull the battery up and out of the battery bay.



1	battery release latch	2	battery
3	battery lock latch		

Replacing the Battery

CAUTION: To avoid damage to the computer, use only the battery designed for this particular Dell computer. Do not use batteries designed for other Dell computers.

1. Follow the procedures in Before You Begin.
2. Align the slots on the battery with the tabs in the battery bay.
3. Push the battery in place till it snaps into place.
4. Slide the battery lock latch to the lock position.

Back to Contents Page

Back to Contents Page

Coin-Cell Battery

Dell™ Inspiron™ 11 Service Manual

- Removing the Coin-Cell Battery
- Replacing the Coin-Cell Battery

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

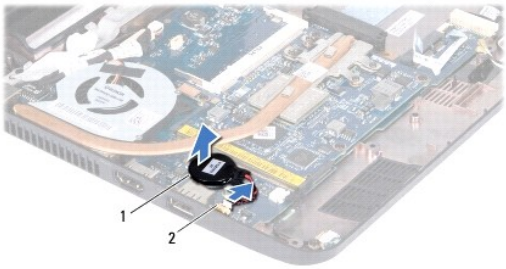
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Coin-Cell Battery

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the Bluetooth card (see Removing the Bluetooth Card).
10. Disconnect the coin-cell battery cable from the system board connector.
11. The coin-cell battery is glued to the system board. Using a plastic scribe pry the coin-cell battery from the system board.



1	coin-cell battery	2	system board connector

Replacing the Coin-Cell Battery

1. Follow the procedures in Before You Begin.
2. Use the adhesive on the coin-cell battery and adhere it to the system board.

3. Connect the coin-cell battery cable to the system board connector.
4. Replace the Bluetooth card (see Replacing the Bluetooth Card).
5. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
6. Replace the memory module (see Replacing the Memory Module).
7. Replace the hard drive (see Replacing the Hard Drive).
8. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
9. Replace the palm rest (see Replacing the Palm Rest).
10. Replace the keyboard (see Replacing the Keyboard).
11. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

I/O Board

Dell™ Inspiron™ 11 Service Manual

- Removing the I/O Board
- Replacing the I/O Board

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

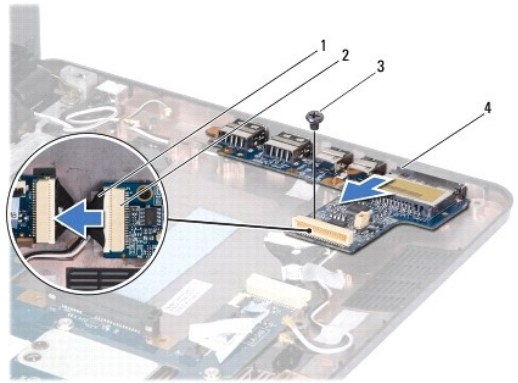
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the I/O Board

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).



1	I/O board cable	2	I/O board cable connector
3	screw	4	I/O board

9. Remove the screw that secures the I/O board to the computer base.
10. Disconnect the I/O board cable from the I/O board cable connector.
11. Lift the I/O board out of the computer base.

Replacing the I/O Board

1. Follow the procedures in Before You Begin.
2. Align the connectors on the I/O board with the slots on the computer base.
3. Replace the screw that secures the I/O board to the computer base.
4. Connect the I/O board cable to the I/O board cable connector.
5. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
6. Replace the memory module (see Replacing the Memory Module).
7. Replace the hard drive (see Replacing the Hard Drive).
8. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
9. Replace the palm rest (see Replacing the Palm Rest).
10. Replace the keyboard (see Replacing the Keyboard).
11. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

Speakers

Dell™ Inspiron™ 11 Service Manual

- Removing the Speakers
- Replacing the Speakers

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

Removing the Speakers

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the palm rest (see Removing the Palm Rest).
4. Disconnect the speaker cable from the speaker cable connector on the I/O board.
5. Make note of the cable routing and carefully dislodge the speaker cables from the routing guides.
6. Remove the four screws (two on each side) that secure the speakers to the palm rest bracket.

1	screws (4)	2	palm rest bracket
3	speakers (2)	4	speaker cable connector

7. Lift the speakers off the palm rest bracket.

Replacing the Speakers

1. Follow the procedures in Before You Begin.
2. Place the speakers on the palm rest bracket.
3. Replace the four screws (two on each side) that secure the speakers to the palm rest bracket.
4. Route the speaker cable through the routing guides.
5. Connect the speaker cable to the speaker cable connector on the I/O board.

6. Replace the palm rest (see Replacing the Palm Rest).

7. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

Back to Contents Page

Back to Contents Page

System Board

Dell™ Inspiron™ 11 Service Manual

- Removing the System Board
- Replacing the System Board
- Setting the Keyboard Matrix

WARNING: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practices information, see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

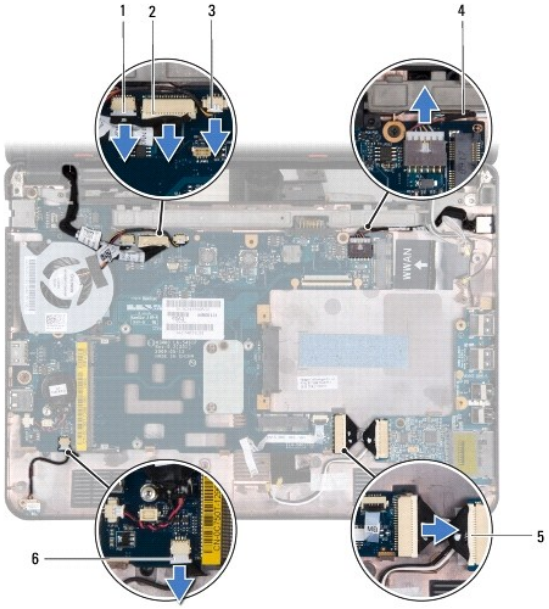
CAUTION: Only a certified service technician should perform repairs on your computer. Damage due to servicing that is not authorized by Dell™ is not covered by your warranty.

CAUTION: To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on your computer).

CAUTION: To help prevent damage to the system board, remove the main battery (see Removing the Battery) before working inside the computer.

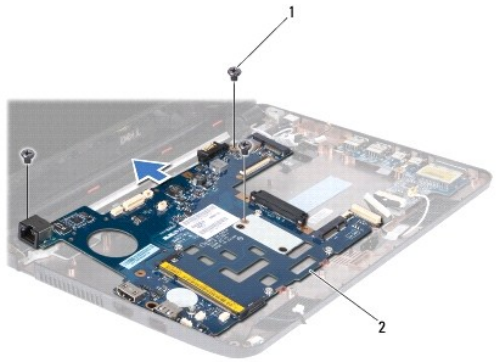
Removing the System Board

1. Follow the procedures in Before You Begin.
2. Remove the battery (see Removing the Battery).
3. Remove the keyboard (see Removing the Keyboard).
4. Remove the palm rest (see Removing the Palm Rest).
5. Disconnect the speaker cable from the speaker cable connector on the I/O board (see Removing the Speakers).
6. Remove the hard drive (see Removing the Hard Drive).
7. Remove the memory module (see Removing the Memory Module).
8. Remove the palm rest bracket (see Removing the Palm Rest Bracket).
9. Remove the Bluetooth card (see Removing the Bluetooth Card).
10. Remove the WWAN card, if applicable (see Removing the WWAN Card).
11. Remove the WLAN card, if applicable (see Removing the WLAN Card).
12. Remove the processor heat sink (see Removing the Processor Heat Sink).
13. Remove the memory and processor board (see Removing the Memory and Processor Board).
14. Disconnect the display cable, camera cable, processor fan cable, AC adapter connector cable, I/O board cable, and the LED board cable from the system board connectors.



1	camera cable connector	2	display cable connector
3	processor fan cable connector	4	AC adapter connector cable
5	I/O board cable connector	6	LED board cable connector

15. Remove the processor fan (see Removing the Processor Fan).
16. Remove the coin-cell battery (see Removing the Coin-Cell Battery).
17. Remove the three screws that secure the system board to the computer base.
18. Lift the system board off the computer base.



1	screws (3)	2	system board

Replacing the System Board

1. Follow the procedures in Before You Begin.
2. Place the system board on the computer base.
3. Replace the three screws that secure the system board to the computer base.
4. Replace the processor fan (see Replacing the Processor Fan).

5. Connect the display cable, camera cable, processor fan cable, AC adapter connector cable, I/O board cable, and the LED board cable to the system board connectors.
6. Replace the WLAN card, if applicable (see Replacing the WLAN Card).
7. Replace the WWAN card, if applicable (see Replacing the WWAN Card).
8. Replace the memory and processor board (see Replacing the Memory and Processor Board).
9. Replace the processor heat sink (see Replacing the Processor Heat Sink).
10. Replace the coin-cell battery (see Replacing the Coin-Cell Battery).
11. Replace the Bluetooth card (see Replacing the Bluetooth Card).
12. Replace the palm rest bracket (see Replacing the Palm Rest Bracket).
13. Replace the memory module (see Replacing the Memory Module).
14. Replace the hard drive (see Replacing the Hard Drive).
15. Connect the speaker cable to the speaker cable connector on the I/O board (see Replacing the Speakers).
16. Replace the palm rest (see Replacing the Palm Rest).
17. Replace the keyboard (see Replacing the Keyboard).
18. Replace the battery (see Replacing the Battery).

CAUTION: Before turning on the computer, replace all screws and ensure that no stray screws remain inside the computer. Failure to do so may result in damage to the computer.

19. Turn on the computer.

NOTE: After you have replaced the system board, enter the computer's Service Tag into the BIOS of the replacement system board.

20. Enter the Service Tag. If you need help to enter the service tag, contact Dell, see "Contacting Dell" in the *Setup Guide*.
21. The keyboard matrix may change after you replace the system board. To set the keyboard matrix according to your country, see Setting the Keyboard Matrix.

Setting the Keyboard Matrix

1. Turn off your computer (see Turning Off Your Computer).
2. If your computer is connected to the AC adapter, disconnect the AC adapter from the computer.
3. Press and hold the following key combination for the desired keyboard matrix:
   - All countries except Brazil: <Fn><S>
   - Brazil only: <Fn><E>
4. Connect the AC adapter to the computer and then plug it into a wall outlet or surge protector.
5. Release the key combination.

Back to Contents Page

Back to Contents Page

Dell™ Inspiron™ 11 Service Manual

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Information in this document is subject to change without notice.
© 2009 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: *Dell*, the *DELL* logo, and *Inspiron* are trademarks of Dell Inc.; *Bluetooth* is a registered trademark owned by Bluetooth SIG, Inc. and is used by Dell under license; *Microsoft*, *Windows, Windows Vista,* and *Windows Vista* start button logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries; *Intel*, *Celeron*, and *Pentium* are registered trademarks of Intel Corporation in the U.S. and other countries.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.

August 2009 Rev. A00

Back to Contents Page